

North Atlantic Right Whale Causes of Death for Confirmed Carcasses

| Year | Month | NARW ID | Sex | Location First Observed Dead | Country First Observed Dead | Preliminary Cause of Death |
|------|-----------|-----------------|-----|-------------------------------|-----------------------------|---|
| 2017 | April | #4694 | F | Barnstable, MA | USA | Vessel strike (blunt force trauma) |
| 2017 | June | #3746 | M | Gulf of St Lawrence | Canada | Undetermined; could not be examined |
| 2017 | June | Glacier #1402 | M | Gulf of St Lawrence | Canada | Suspect vessel strike (blunt force trauma) |
| 2017 | June | Panama #3190 | M | Gulf of St Lawrence | Canada | Undetermined; advance decomposition |
| 2017 | June | Starboard #3603 | F | Gulf of St Lawrence | Canada | Acute entanglement (gear present; anchored) |
| 2017 | June | Contrail #3512 | F | Gulf of St Lawrence | Canada | Undetermined; could not be examined |
| 2017 | June | #1207 | M | Gulf of St Lawrence | Canada | Probable vessel strike (blunt force trauma) |
| 2017 | July | Unk | M | Gulf of St Lawrence | Canada | Probable vessel strike (blunt force trauma) |
| 2017 | July | Peanut #2140 | M | Gulf of St Lawrence | Canada | Suspect vessel strike (blunt force trauma) |
| 2017 | July | Alien #2630 | M | Newfoundland | Canada | Undetermined; could not be examined |
| 2017 | July | Unk | F | Newfoundland | Canada | Undetermined; could not be examined |
| 2017 | July | Mystique #1911 | F | Newfoundland | Canada | Undetermined; could not be examined |
| 2017 | August | Unk | M | Martha's Vineyard, MA | USA | Probable entanglement |
| 2017 | August | Couplet #2123 | F | Cape Cod, MA (offshore) | USA | Undetermined; could not be examined |
| 2017 | September | #4504 | F | Gulf of St Lawrence | Canada | Acute entanglement (gear present) |
| 2017 | October | Unk | M | Nashawena Island, MA | USA | Suspect entanglement |
| 2017 | November | Picasso #2611 | F | Martha's Vineyard, MA | USA | Undetermined; advance decomposition |
| 2018 | January | #3893 | F | Virginia Beach, VA (offshore) | USA | Chronic entanglement (gear present) |
| 2018 | August | #4505 | M | Monomoy, MA | USA | Probable entanglement |
| 2018 | October | #3515 | F | Nantucket, MA (offshore) | USA | Probable acute entanglement |

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|------|-----------|-------------------------------|---|--------------------------------|--------|--|
| 2019 | June | Wolverine #4023 | M | Gulf of St Lawrence | Canada | Suspect vessel strike (blunt force trauma) |
| 2019 | June | Punctuation #1281 | F | Gulf of St Lawrence | Canada | Probable vessel strike (sharp force trauma) |
| 2019 | June | Comet #1514 | M | Gulf of St Lawrence | Canada | Probable vessel strike (blunt force trauma) |
| 2019 | June | #3815 | F | Gulf of St Lawrence | Canada | Undetermined; not examined |
| 2019 | June | #3329 | F | Gulf of St Lawrence | Canada | Undetermined; not examined |
| 2019 | June | Clipper #3450 | F | Gulf of St Lawrence | Canada | Probable vessel strike (blunt force trauma) |
| 2019 | June | Unk* | U | Cape Breton | Canada | Undetermined; not examined |
| 2019 | July | #3421 | M | Gulf of St Lawrence | Canada | Undetermined |
| 2019 | July | Unk | M | Cape Breton | Canada | Undetermined; not examined |
| 2019 | September | Snake Eyes #1226 | M | Long Island, NY(offshore) | USA | Probable acute entanglement |
| 2020 | June | #5060 (2020 calf of #3560) | M | Elberon, New Jersey (offshore) | USA | Vessel strike (sharp and blunt force trauma) |
| 2020 | November | Unk | M | Core Banks, North Carolina | USA | Perinatal mortality |
| 2021 | February | #5130 (2021 Calf of #3230) | M | St. Augustine, Florida | USA | Vessel strike (sharp and blunt force trauma) |
| 2021 | February | Cottontail #3920** | M | Myrtle Beach, SC (offshore) | USA | Chronic entanglement (gear present) |
| 2023 | January | Unk | M | Morehead City, NC (offshore) | USA | Perinatal mortality |
| 2023 | February | #3343 | M | Virginia Beach, VA | USA | Suspect vessel strike (blunt force trauma) |
| 2024 | January | #5120 (2021 Calf of #3720)*** | F | Martha's Vineyard, MA | USA | Pending |
| 2024 | February | 2023 Calf of #4340 | F | Savannah, GA (offshore) | USA | Probable vessel strike (blunt force trauma) |
| 2024 | March | 2024 Calf of #1612**** | U | Cumberland Island, GA | USA | Probable vessel strike (sharp force trauma) |
| 2024 | March | #1950 | F | Virginia Beach, VA (offshore) | USA | Probable vessel strike (blunt force trauma) |

*This whale is not confirmed since it could not be relocated and determination of it being a re-sighted carcass was inconclusive.

** This whale was originally included as a serious injury case due to an entanglement that was first documented in October 2020 off Massachusetts, USA.

***This whale was originally included as a serious injury case due to an entanglement that was first documented in August 2022 in the Gulf of St. Lawrence, Canada.

****This whale was originally included as a serious injury case due to a vessel strike that was first documented in January 2024 off South Carolina, USA.

Note: Tables represent confirmed mortalities and injuries reported in each country and do not always reflect the location of the injury or death of the animal. Carcasses may drift across national boundaries; therefore, a carcass may be sighted or reported in one country even though the mortality occurred elsewhere. Species or stocks that migrate across national boundaries often carry their illnesses, injuries, or exposures to toxins with them. For mortality, serious injury, and morbidity determinations in these species, transboundary collaboration is critical in determining the causes of injury, illness, and mortality for each animal.

North Atlantic Right Whales Initially Determined to be Seriously Injured (Last Seen Alive)

| Year | Month | NARW ID | Sex | Location First Observed | Country First Observed | Initial Serious Injury Determination |
|------|----------|----------------------------|-----|---|------------------------|--------------------------------------|
| 2017 | January | Ruffian #3530 | M | off Cumberland Island, GA | USA | Entanglement |
| 2017 | July | #4123 | M | off Sainte-Marie Saint-Raphael, New Brunswick | Canada | Entanglement |
| 2017 | July | Mayport #4094 | F | off Sainte-Marie Saint-Raphael, New Brunswick | Canada | Entanglement |
| 2017 | July | Diablo #3139 | F | off Nantucket, MA | USA | Entanglement |
| 2017 | July | Shelagh #4510 | F | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2017 | August | Zion #3245 | M | off Gaspé, Quebec | Canada | Entanglement |
| 2018 | February | #3296 | M | off Jekyll Island, GA | USA | Entanglement |
| 2018 | July | #3312 | M | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2018 | July | #3843 | M | off Grand Manan, New Brunswick | Canada | Entanglement |
| 2018 | August | #3960 | M | off Chandler, New Brunswick | Canada | Entanglement |
| 2018 | December | #2310 | M | off Nantucket, MA | USA | Entanglement |
| 2018 | December | #3208 | M | off Nantucket, MA | USA | Entanglement |
| 2019 | April | Nebula #4423 | M | off Orleans, MA | USA | Entanglement |
| 2019 | June | Avalanche #4440 | M | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2019 | July | #3125 | M | off Perce, Quebec | Canada | Entanglement |
| 2020 | January | #5010 (2020 Calf of #2360) | U | Altamaha Sound, GA | USA | Vessel Strike |
| 2020 | January | Quill #4091 | F | South of Nantucket, MA | USA | Entanglement |
| 2020 | February | Dragon #3180 | F | off Nantucket, MA | USA | Entanglement |
| 2020 | March | Unk | U | off Georges Bank | USA | Entanglement |

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|------|----------|----------------------|---|----------------------------------|--------|----------------|
| 2020 | October | #4680 | M | off Sea Bright, NJ | USA | Entanglement |
| 2020 | December | Unk | U | off Canary Islands | Spain | Dependent Calf |
| 2021 | January | #1803 | M | off Georgia/Florida state border | USA | Entanglement |
| 2021 | February | Infinity #3230 | F | off St. Augustine, FL | USA | Vessel Strike |
| 2021 | March | Snow Cone #3560 | F | off Cape Cod Bay, MA | USA | Entanglement |
| 2021 | July | Hercules #4615 | M | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2021 | December | 2022 Calf of #3560* | U | off Cumberland Island, GA | USA | Entanglement |
| 2022 | May | Sundog #3823 | F | off Gaspé, Quebec | Canada | Entanglement |
| 2022 | June | Meridian #1403 | M | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2022 | August | #4501 | M | off New Brunswick | Canada | Entanglement |
| 2023 | January | #4904 | F | off Rodanthe, North Carolina | USA | Entanglement |
| 2023 | January | Argo #1218 | M | off Surf City, NC | USA | Entanglement |
| 2023 | February | #4545 | F | off Southern MA | USA | Entanglement |
| 2023 | June | Specs #2930 | M | Gulf of St Lawrence | Canada | Entanglement |
| 2024 | March | 2024 Calf of #1950** | U | off Virginia Beach, Virginia | USA | Vessel Strike |

* "Dependent Calf – Serious Injury to Mother". Unless additional information proves a dependent calf survives the loss or serious injury of its mother, a confirmed case involving a dependent calf of a dead or seriously injured mother is counted as a serious injury to the calf based upon the injury to the mother (in this case entanglement).

**"Dependent Calf – Serious Injury to Mother". Unless additional information proves a dependent calf survives the loss or serious injury of its mother, a confirmed case involving a dependent calf of a dead or seriously injured mother is counted as a serious injury to the calf based upon the injury to the mother (in this case vessel strike).

Note: Tables represent confirmed mortalities and injuries reported in each country and do not always reflect the location of the injury or death of the animal. Carcasses may drift across national boundaries; therefore, a carcass may be sighted or reported in one country even though the mortality occurred elsewhere. Species or stocks that migrate across national boundaries often carry their illnesses, injuries, or exposures to toxins with them. For mortality, serious injury, and morbidity determinations in these species, transboundary collaboration is critical in determining the causes of injury, illness, and mortality for each animal.

North Atlantic Right Whale Morbidity (Sublethally Injured or Ill) Cases

| Year | Month | NARW ID | Sex | Location First Observed | Country First Observed | Initial Morbidity (Sublethal Injury/Illness) Determination |
|------|-----------|-------------------------|-----|---|------------------------|--|
| 2017 | April | Iceland #1412 | F | Great South Channel | Canada | Entanglement |
| 2017 | April | #4146 | F | off Truro, MA | USA | Entanglement |
| 2017 | April | Resolution #3532 | M | Great South Channel | USA | Entanglement |
| 2017 | April | #4425 | M | Cape Cod Bay, MA | USA | Entanglement |
| 2017 | June | Cello #1820 | M | off Sainte-Marie Saint-Raphael, New Brunswick | Canada | Entanglement |
| 2017 | July | Ergo #1317 | M | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2017 | July | G048 | U | off Sainte-Marie Saint-Raphael, New Brunswick | Canada | Entanglement |
| 2017 | July | Nantucket #1971 | M | off Sainte-Marie Saint-Raphael, New Brunswick | Canada | Entanglement |
| 2017 | July | Arpeggio #2753 | F | Gulf of St. Lawrence | Canada | Entanglement |
| 2017 | August | Sirius #3660 | M | Gulf of St Lawrence | Canada | Unknown Injury |
| 2017 | August | #4617 | F | Cape Cod Bay, MA | USA | Entanglement |
| 2017 | October | #2145 | F | off Mt. Desert Rock, ME | USA | Poor Body Condition |
| 2018 | February | #1708 | M | Cape Cod Bay, MA | USA | Entanglement |
| 2018 | February | Silt #1817 | F | Cape Cod Bay, MA | USA | Entanglement |
| 2018 | February | Ravine #3142 | F | South of Nantucket, MA | USA | Poor Body Condition |
| 2018 | April | Bongo #3623 | M | Massachusetts Bay | USA | Entanglement |
| 2018 | May | Javelin #1112 | M | Great South Channel | USA | Entanglement |
| 2018 | June | #4720 | U | Gulf of St. Lawrence | Canada | Entanglement |
| 2018 | July | Gully #4601 | F | off Miscou Island, New Brunswick | Canada | Entanglement |
| 2018 | July | Dyad #4180 | F | Gulf of St. Lawrence | Canada | Entanglement |
| 2018 | September | Seamount #4457 | M | Gulf of St Lawrence | Canada | Entanglement |
| 2018 | November | Unidentified whale-2018 | U | Stellwagen Bank, MA | USA | Poor Body Condition |

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|------|-----------|---------------------------------|---|------------------------------|--------|---------------------|
| 2018 | November | Champagne #3904 | F | South of Nantucket, MA | USA | Entanglement |
| 2018 | November | Katz #1804 | M | Southern New England | USA | Poor Body Condition |
| 2019 | June | Twister #3510 | M | off Perce, Quebec | Canada | Entanglement |
| 2019 | July | Lemur #3380 | M | Gulf of St Lawrence | Canada | Entanglement |
| 2019 | July | Dropcloth #1271 | M | Gulf of St. Lawrence | Canada | Entanglement |
| 2019 | August | Zero #3908 | F | Bay of Fundy | Canada | Entanglement |
| 2019 | September | Freckles #4308 | F | Southern New England | USA | Entanglement |
| 2019 | December | #3466 | M | South of Nantucket, MA | USA | Entanglement |
| 2020 | January | Neptune #3301 | M | Cape Cod Bay, MA | USA | Entanglement |
| 2020 | January | Wavy Gravy #1627 | M | Southern New England | USA | Entanglement |
| 2020 | February | Aphrodite #1701 | F | off Provincetown, MA | USA | Entanglement |
| 2020 | February | Batman #1017 | M | Cape Cod Bay, MA | USA | Vessel Strike |
| 2020 | June | Manta #1507 | M | Gulf of St. Lawrence | Canada | Entanglement |
| 2020 | July | Agave #5001 (2020 Calf of 3101) | M | off Shippagan, New Brunswick | Canada | Unknown Injury |
| 2021 | March | El #1209 | F | Massachusetts Bay | USA | Vessel Strike |
| 2021 | April | Calvin #2223 | F | Massachusetts Bay | USA | Entanglement |
| 2021 | Jun | #3550 | M | Gulf of St Lawrence | Canada | Entanglement |
| 2021 | July | #4633 | F | Gulf of St Lawrence | Canada | Entanglement |
| 2021 | Sep | #1429 | M | Gulf of St Lawrence | Canada | Entanglement |
| 2022 | January | 2022 Calf of #1301 | U | off Brunswick, GA | USA | Poor Body Condition |
| 2022 | May | Tux #3401 | M | Gulf of Maine | USA | Entanglement |
| 2022 | May | #5012 | M | off Georges Bank | USA | Vessel Strike |
| 2022 | June | Hyphen #2681 | M | Gulf of Maine | USA | Entanglement |
| 2022 | July | Sebastian #4650 | M | Gulf of St. Lawrence | Canada | Entanglement |
| 2022 | December | Prickly Pear #4310 | F | off St. Augustine, FL | USA | Entanglement |
| 2022 | December | #5192 (2021 Calf of #3520) | M | off Southern New England | USA | Entanglement |
| 2023 | January | Nimbus #3812* | M | off Jekyll Island, GA | USA | Entanglement |
| 2023 | January | Coral #4980 | U | off Amelia Island, FL | USA | Unknown Injury |
| 2023 | February | 2022 Calf of #3220 | U | off Tybee Island, GA | USA | Vessel Strike |

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|------|-----------|---------------------------|---|--------------------------|--------|----------------|
| 2023 | March | #3845 | M | off Southern New England | USA | Entanglement |
| 2023 | March | #4020 | F | Cape Cod Bay, MA | USA | Vessel Strike |
| 2023 | March | #4080 | F | off Southern New England | USA | Entanglement |
| 2023 | March | #4145 | M | off Southern New England | USA | Entanglement |
| 2023 | March | #4446 | M | off Southern New England | USA | Unknown Injury |
| 2023 | March | #5104 (2021 Calf of 3904) | M | Cape Cod Bay, MA | USA | Entanglement |
| 2023 | June | Echo #2642** | F | Gulf of St. Lawrence | Canada | Entanglement |
| 2023 | June | 2022 Calf of #3157 | M | Gulf of St Lawrence | Canada | Entanglement |
| 2023 | June | 2022 Calf of #4180 | U | Gulf of St. Lawrence | Canada | Entanglement |
| 2023 | July | #4040 | F | Gulf of St Lawrence | Canada | Unknown Injury |
| 2023 | July | Martini #4042*** | M | Gulf of St. Lawrence | Canada | Entanglement |
| 2023 | July | #5046 | M | Gulf of St Lawrence | Canada | Unknown Injury |
| 2023 | September | 2022 Calf of #2753**** | U | Gulf of St. Lawrence | Canada | Entanglement |
| 2024 | April | #4143 | M | off Block Island, RI | USA | Entanglement |

**This whale was previously documented with a less severe morbidity injury of unknown cause in July 2019 off Miscou Island, New Brunswick, Canada.*

***This whale was previously documented with a less severe entanglement morbidity injury in July 2017 in the Gulf of St. Lawrence, Canada.*

****This whale was previously documented with a less severe entanglement morbidity injury in May 2022 in Massachusetts Bay, USA.*

*****This whale was previously documented with a less severe entanglement morbidity injury in August 2022 in Gulf of St. Lawrence, Canada.*

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